ABSTRACT

An expandable intraluminal stent having a strut pattern made from a plurality of triangular cells is disclosed. Each triangular cell is formed from at least two V struts of different magnitudes aligned in phase and joined at opposite ends forming two opposed vertices of the triangle. A series of triangular cells are joined at the vertices to form a ring. The series of triangular cells may be arranged to form peaks in the ring, peaks and valleys in the ring, or a combination thereof. A plurality of the rings are aligned coaxially and joined by connecting elements to form a tubular shape. Use of the double V strut formation in the rings increases vessel wall coverage, reduces gap sizes, and does not impair the compressability of the stent for a small profile for delivery.